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ABSTRACT

A system-on-panel typed liquid crystal display has active layers of single crystalline silicon for fabricating such high speed circuits as drivers, controllers, and central process units. By forming such active layer on a common substrate, the high speed circuits can coexist with lower speed pixel array. As a result, the system-on-panel LCD enables the efficient fabrication of a pixel array, a driver, a controller and a CPU circuit on the same substrate, whereby the fabrication process is simplified and production yields are increased. Moreover, the present invention facilitates the fabrication and manufacture of portable LCD products which are significantly reduced in weight and size because the space occupied by the controller and the CPU circuit is markedly and desirably reduced.

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